

10367 U.S. PTO
012204

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAIL STOP PATENT
APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE UNDER 37 CFR 1.10	
I hereby certify that this transmittal and the documents referred to as attached therein are being deposited on <u>1/22</u> , 2004 with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee," mailing label No. <u>EV335471723US</u> addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.	
Date <u>1/22/04</u>	Signature <u>Kent R. Zales</u>

031356 U.S. PTO
10/762764
012204

REQUEST FOR FILING A PATENT APPLICATION
UNDER 37 CFR 1.53(b)

This is a request for filing the following continuing application for a prior application:

- ☒ Continuation
- ☐ Divisional
- ☐ Continuation-in-part
- ☐ attached is an amendment for added subject matter
- ☐ Continuing application to permit consideration of an information disclosure statement under 37 CFR 1.97.

PARTICULARS OF PRIOR APPLICATION

Application Serial No.: 09/678,266
Confirmation No.: 4642
Filed: October 3, 2000
Title: Method and Apparatus for Depositing Refractory Metal Layers Employing Sequential Deposition Techniques to Form a Nucleation Layer

Name(s) of applicant(s) (as originally filed and as last amended) and the current correspondence address and country of citizenship for each:

First Inventor:

Name: MING XI
Residence: 151 Churchill Avenue
Palo Alto, California 94306

Country of Citizenship: UNITED STATES

Post Office Address: same as above

Second Inventor:

Name: ASHOK SINHA

Residence: 4176 Hubbart Drive
Palo Alto, California 94306

Country of Citizenship: UNITED STATES

Post Office Address: same as above

Third Inventor:

Name: MORIS KORI

Residence: 55 Hamilton Court
Palo Alto, California 94301

Country of Citizenship: UNITED STATES

Post Office Address: same as above

Fourth Inventor:

Name: ALFRED W. MAK

Residence: 32722 Fellows Court
Union City, California 94587

Country of Citizenship: UNITED STATES

Post Office Address: same as above

Fifth Inventor:

Name: XINLIANG LU

Residence: 685 Garland Avenue #54
Sunnyvale, California 94086

Country of Citizenship: CHINA P.R.

Post Office Address: same as above

Sixth Inventor:

Name: KEN KAUNG LAI

Residence: 1354 Terra Alta Drive
Milpitas, California 95035

Country of Citizenship: CHINA P.R.

Post Office Address: same as above

Seventh Inventor:

Name: KARL A. LITTAU

Residence: 3278 Bryant Street
Palo Alto, California 94303

Country of Citizenship: UNITED STATES

Post Office Address: same as above

INVENTORSHIP STATEMENT

- (a) ☒ This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above, and the inventor(s) in this application are:
- ☒ the same
- ☐ less than those named in the prior application, and it is requested that the following inventor(s) for the prior application be deleted:
- (b) ☐ This application discloses and claims additional disclosure and a new declaration or oath is being filed. With respect to the prior application whose particulars are set out above, the inventor(s) in this application are:
- ☐ the same
- ☐ add the following additional inventor(s):
- (c) ☒ The inventorship for all the claims in this application is:
- ☒ the same
- ☐ not the same; and an explanation, including the ownership of the various claims at the time the last claimed invention was made, is submitted.

DECLARATION OR OATH

- ☒ Continuation or Divisional (copy of original Declaration/Oath is attached)
- ☐ Continuation-in-part
- ☐ Attached, and executed by:
- ☐ inventor(s)
- ☐ legal representative of inventor(s) (37 CFR 1.42 or 1.43)
- ☐ joint inventor or person showing a proprietary interest for inventor who refused to sign or cannot be reached (37 CFR 1.47)
- ☐ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached.
- ☐ Not attached
- ☐ Application is made by a person authorized under 37 CFR 1.41(c) on behalf of all of the above-named applicant(s).
- ☐ Attached is a showing that the filing is authorized.

IDENTIFICATION OF CLAIMS FOR FURTHER PROSECUTION

- ☒ The fees to be charged are to be based on the number of claims remaining as a result of the:
- ☐ attached preliminary amendment
- ☐ cancellation of claim(s)
- ☒ claims in the application

FEE CALCULATION (37 CFR 1.16)

	NUMBER OF CLAIMS FILED	LESS NUMBER PAID BY BASIC FEE	NUMBER OF EXTRA CLAIMS (Not less than zero)	LARGE ENTITY FEE
Basic Fee				\$770.00
Total Claims	14	- 20 = 0	X \$18 =	\$.00
Independent Claims	2	- 3 = 0	X \$86 =	\$.00
First Presentation of Multiple Dependent Claims + \$280				-0-
Total Filing Fee Calculation				\$ 770.00

PETITION FOR SUSPENSION OF PROSECUTION FOR THE TIME NECESSARY TO FILE AN AMENDMENT

- ☐ There is provided herewith a Petition for Suspension of Prosecution for the Time Necessary to File an Amendment (37 CFR 1.103) – New Application Filed Concurrently

FEE PAYMENT BEING MADE AT THIS TIME

- ☒ No filing fee is submitted
- ☐ Filing Fee \$770.00
- ☐ Recording Assignment [37 CFR 1.21(h)] \$ 40.00
- ☐ Petition fee for filing by other than all the inventors or person not the inventor where inventor refused to sign or cannot be reached [37 CFR 1.47 and 1.17(h)] \$130.00
- ☐ Processing and retention fee [37 CFR 1.53(d) and 1.21(l)] \$130.00
- ☐ Please charge Deposit Account No. in the amount of \$770.00
(A duplicate copy of this request is enclosed)

AUTHORIZATION TO CHARGE ADDITIONAL FEES

☐ The Commissioner is hereby authorized to charge the following additional fees which may be required by this paper and during the entire pendency of this application, to **Deposit Account No.**

- ☐ 37 CFR 1.16(a), (f) or (g) (filing fees)
- ☐ 37 CFR 1.16(b), (c) and (d) (presentation of extra claims)
- ☐ 37 CFR 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
- ☐ 37 CFR 1.17 (application processing fees)
- ☐ 37 CFR 1.18 [issue fee at or before mailing of Notice of Allowance, pursuant to 37 CFR 1.311(b)]

INSTRUCTIONS AS TO OVERPAYMENT

☐ **Credit Deposit Account No.**

PRIORITY 35 USC 119

☐ Priority of application Serial No. filed on in is claimed under 35 USC 119.

☐ The certified copy has been filed on in prior U.S. Application Serial No. , which prior application was filed on .

☐ Certified copy will follow.

RELATE BACK 35 USC 120

☐ Amend the specification by inserting before the first line the sentence:

"This is a

- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part

of copending application(s)

☐ Serial No. filed on ."

☐ International Application filed on and which designated the U.S."

ASSIGNMENT

☒ The prior application is assigned of record to: APPLIED MATERIALS, INC.

- ☐ An assignment of the invention to APPLIED MATERIALS, INC. is attached.
- ☐ Form PTO 1595 (Recordation Form Cover Sheet) is also attached (in **duplicate**).

POWER OF ATTORNEY

- ☒ The power of attorney in the prior application is to:

Donald Verplancken	Registration No. 33,217
Peter J. Sgarbossa	Registration No. 25,610
Raymond Kam-On Kwong	Registration No. 37,165
Joseph Bach	Registration No. 37,771
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
B. Todd Patterson	Registration No. 37,906
Raymond R. Moser, Jr.	Registration No. 34,682
Keith M. Tackett	Registration No. 32,008

Send correspondence to:

Direct telephone calls to:

Patent Counsel
APPLIED MATERIALS, INC.
P.O. Box 450A
Santa Clara, CA 95052

B. Todd Patterson
MOSER, PATTERSON & SHERIDAN, L.L.P.
(713) 623-4844

- ☐ The power appears in the original papers in the prior application.
- ☒ The power does not appear in the original papers, but was filed on September 20, 2001 (**Copy Attached**)
- ☐ A new power has been executed and is attached.
- ☒ Address all future communications to:
Patent Counsel
APPLIED MATERIALS, INC.
P.O. Box 450A
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson
MOSER, PATTERSON & SHERIDAN, L.L.P.
(713) 623-4844

MAINTENANCE OF COPENDENCY OF PRIOR APPLICATION

- ☐ A petition, fee and response has been filed to extend the term in the pending prior application until . (**copy attached**)

CONDITIONAL PETITION FOR EXTENSION OF TIME IN PRIOR APPLICATION

- ☐ A conditional petition for extension of time is being filed in the pending prior application. **(copy attached)**

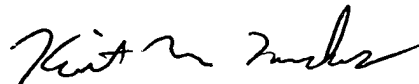
ABANDONMENT OF PRIOR APPLICATION

- ☐ Please abandon the prior application at a time while the prior application is pending or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application. At the same time, please add the words "now abandoned" to the amendment to the specification set forth in the "Relate Back-35 USC 120" section (page 5).

INFORMATION DISCLOSURE STATEMENT

- ☐ Submitted herewith is an Information Disclosure Statement.

Respectfully submitted,



Keith M. Tackett
Registration No. 32,008
MOSER, PATTERSON & SHERIDAN, L.L.P.
3040 Post Oak Blvd., Suite 1500
Houston, TX 77056
Telephone: (713) 623-4844
Facsimile: (713) 623-4846
Attorney for Applicant(s)